**Bids received until May 21, 1915.**

## Bridges

Rome, Ga.

Sealed proposals will be received by the Board of Commissioners of Roads & Revenue, Floyd County, Ga., until twelve o'clock noon of May 21st, 1915, for the construction of the following bridges, with the City of Rome, said County.

(a) Second Avenue Bridge—A reinforced concrete arch bridge, forty foot roadway and two eight foot sidewalks, total length of about three hundred and seventy-six (376) ft.

(b) Reinforced concrete arch bridge at Broad Street, forty foot roadway and two eight foot sidewalks, total length of about four hundred and seven (407) feet.

(c) Steel truss bridge on concrete substructure, at Fifth Avenue, with a thirty-six and one-half foot roadway and two eight foot sidewalks, total length three hundred and sixty-seven (367) feet. This bridge will have a movable channel span with a channel clearance of about one hundred feet.

Certified check for One Thousand Dollars must accompany each bid.

Instructions to bidders, plans, specifications, forms of contracts, proposal and bond may be seen in the offices of the Consulting Engineers, Greiner & Whitman, Fidelity Building, Baltimore, Md., W. C. Spiker, Hurt Building, Atlanta, Ga., and in the office of Kieffer Lindsey, County Engineer, at Rome, Ga.

Contractors can obtain complete sets of plans, specifications, etc., from W. C. Spiker, for the sum of $5.00 per set for the Fifth Avenue Bridge and $5.00 per set for the Second Avenue and Broad Street bridges combined, and the Board reserves the right to reject any or all proposals and to make the award for either bridge separately or all bridges together, according to the best interest of the County.

After bidding on plans as above stated bidders may also submit alternate designs and specifications with their bids thereon, such alternate designs to be approved by the County Consulting Engineers. This April 19th, 1915.

J. G. POLLOCK, Commissioner.
C. L. CONN, Commissioner.
W. N. HORTON, Commissioner.
P. C. GRIFFIN, Commissioner.
C. M. YOUNG, Commissioner.
J. S. DAVIS, Commissioner.

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**Bids received until May 18, 1915.**

## Highway Work

OFFICE OF THE STATE COMMISSION OF HIGHWAYS

Albany, N. Y.

Sealed proposals will be received by the undersigned at their office, No. 55 Lancaster Street, Albany, N. Y., at 1 o'clock p.m. Tuesday, the 18th day of May, 1915, for the repair of highways in the following counties:

Allegany (one contract—surface treatment, one contract—resurfacing); Cayuga (one contract—resurfacing); Franklin (one contract—surface treatment, one contract—resurfacing); Fulton (one contract—surface treatment); Genesee (one contract—surface treatment, one contract—broken stone); Livingston (three contracts—surface treatment, one contract—broken stone); Monroe (two contracts—surface treatment, four contracts—broken stone); Hamilton (one contract—surface treatment); Ontario (one contract—surface treatment, one contract—resurfacing, one contract—broken stone); Madison (two contracts—surface treatment); Montgomery (one contract (surface treatment); Oneida (three contracts—surface treatment); Otsego (one contract—surface treatment); Herkimer (one contract—surface treatment); Orange (two contracts—resurfacing); Orleans (one contract—surface treatment, one contract—broken stone); Oswego (two contracts—surface treatment; Rensselaer (one contract—resurfacing); Seneca (one contract—surface treatment); Steuben (one contract—resurfacing); Tompkins (one contract—resurfacing); Washington (one contract—resurfacing); Wyoming (one contract—surface treatment, one contract—broken stone); Yates (one contract—surface treatment).

Maps, plans, specifications and estimates may be seen and proposal forms obtained at the office of the Commission in Albany, N. Y., and also at the office of the Division Engineers in whose division the contracts are to be repaired. The addresses of the Division Engineers and the counties in which they are in charge will be furnished on request.

The especial attention of bidders is called to "Information for Bidders" in the itemized proposal, specifications and contract agreement.

EDWIN DUFFEY, Commissioner.

I. J. MORRIS, Secretary.

**Bids received until May 14, 1915.**

## Intercepting Sewers and Connections

OFFICIAL NOTICE NO. 10

Published by authority of the Sewerage Commission of the City of Milwaukee.

Milwaukee, Apr. 23rd, 1915.

Sealed proposals for constructing intercepting sewers and connections on both sides of the Milwaukee River in the City of Milwaukee will be received by the Sewerage Commission at its office in the City Hall, until 2:00 P.M. on the 14th day of May, A.D. 1915, at which place and time the proposals will be publicly opened and read.

The work to be done may be divided into two separate contracts numbered 9 and 10, or further sub-divided into five contracts numbered 11, 12, 13, 14 and 15.

Number 9 embraces the construction of an intercepting sewer and branches on the east side of Milwaukee River from a point below the dam to the intersection of Broadway and Detroit Streets, and requires the construction of approximately:

7927 feet brick and concrete sewer in open cut from 30" to 51" diameter.
3992 feet brick and concrete sewer in tunnel from 30" to 51" diameter.
3844 feet terra cotta pipe sewer from 10" to 24" diameter.
1762 feet of manholes and pile and timber foundations.

Number 9 may be sub-divided into three contracts numbered 11, 12 and 13.

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Number 10 embraces the construction of an intercepting sewer and branches on the west side of Milwaukee River from the Holton Street Viaduct to the intersection of West Water and Fowler Streets, and requires the construction of approximately:

8480 feet brick and concrete sewer in open cut from 30" to 48" diameter.
2340 feet terra cotta pipe sewer in open cut from 10" to 18" diameter.
1105 feet of manholes and pile and timber foundations.

Number 10 may be sub-divided into two contracts numbered 14 and 15.

All as shown upon the plans and described in the specifications now on file in the office of the Sewerage Commission.

The time allowed for completing contract No. 9 or 10 shall be two hundred and fifty (250) working days. The time for completing either contracts No. 11, 12, 13, 14 and 15 shall be two hundred (200) working days. (Working days meaning such as are particularly described in the contract.)

The liquidated damages for not completing the work within the time agreed shall, for each day's delay, be an amount equal to one-half of one percentum of the aggregate cost of the work embraced in the contract.

Each proposal must be accompanied by a cash deposit of, or, in lieu thereof, by a certified check drawn upon a national or state bank doing business in the City of Milwaukee, to the order of the "Sewerage Commission of the City of Milwaukee," for the following sums; failing in which the bid will be rejected:

| | |
|---|---|
| For proposal Number 9..... | $38,500.00 |
| For proposal Number 10..... | 25,000.00 |
| For proposal Number 11..... | 10,200.00 |
| For proposal Number 12..... | 13,000.00 |
| For proposal Number 13..... | 15,300.00 |
| For proposal Number 14..... | 11,400.00 |
| For proposal Number 15..... | 13,600.00 |

Specifications and blank forms of proposals can be obtained and detail plans examined, at the office of the Sewerage Commission in the City Hall.

The prices must be written in the proposal and also stated in figures. In case of variation the written prices will prevail.

All cash deposits or certified checks deposited by bidders to whom the contract is not awarded will be returned upon application to the Secretary of the Commission after the contract has been awarded or after the rejection of all bids. The cash deposit or certified check which may be deposited by the successful bidder will be returned to him as soon as the contract is properly executed and approved by the City Attorney and Sewerage Commission.

Full sets of detailed plans will be sent to any contractor desiring to bid upon receipt of ten dollars ($10.00). Said amount to be returned upon receipt of plans in good condition.

The Sewerage Commission of the City of Milwaukee reserves the right to reject any and all bids submitted.

J. H. FOWLES, Secretary.

Countersigned:

LOUIS M. KOTECKI, Comptroller.

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U. S. ENGINEER OFFICE, Kansas City, Mo., April 10, 1915.—Sealed proposals for constructing about 9000 feet standard revetment on Missouri River, about 24 miles below Kansas City, and two miles from Atherton, will be received at this office until 12 M., May 10, 1915, and then publicly opened. Information on application. HERBERT DEAKYNE, Lieut.-Col., Engrs.

**Bids received until May 28, 1915.**

## Notice to Bridge Contractors

Canton, N. Y.

Sealed proposals, endorsed "Proposal for Morley Bridge," will be received by the Town Board of the Town of Canton, N. Y., at the Office of the Town Clerk in the Village of Canton, N. Y., until 2 P.M. on the 28th day of May, 1915.

The work consists of removing the superstructure of the present bridge over the Grasse River at Morley, and piling it in neat piles where directed by the Town Superintendent, and furnishing and erecting the superstructure of a new steel truss bridge of two spans of 79' 9" each, with a roadway of 18 feet in width, and one sidewalk of 5 feet in width, with a concrete floor.

Each proposal must be accompanied by a certified check, or its equivalent, for ten per cent. of the amount of the proposal.

A bond, approved by the Supervisor, must be furnished by the successful bidder.

Plans are on file with the Town Clerk, and specifications may be obtained from him or from the Supervisor.

The Town Board reserves the right to reject any or all proposals.

C. G. CHANEY, Supervisor.
H. M. BARBER, Town Clerk.
A. H. WILLIAMS, Town Supt.

Dated May 3rd, 1915.

**Bids received until May 11, 1915.**

## Highway Work

OFFICE OF THE STATE COMMISSION OF HIGHWAYS,
Albany, N. Y.

Sealed proposals will be received by the undersigned at their office, No. 55 Lancaster Street, Albany, N. Y., at 1 o'clock p.m., Tuesday, the 11th day of May, 1915, for the repair of highways in the following counties:

Cattaraugus & Chautauqua (one contract—surface application 33.38 miles); Cayuga (one contract—surface treatment, 11.24 miles); Cortland County (one contract—surface treatment, 11.22 miles); Dutchess (two contracts—surface treatment, 23.95 miles); Erie (one contract—surface treatment, 22.79 miles); Lewis (one contract—surface treatment, 15.77 miles); Ontario & Livingston (one contract—surface treatment, 22.33 miles); Monroe (two contracts—surface treatment, 41.41 miles); Niagara (two contracts—surface treatment, 52.57 miles); Ontario (one contract—surface treatment, 18.42 miles); Orleans (one contract—surface treatment, 20.54 miles); Onondaga (one contract—surface treatment, 14.91 miles); Rensselaer (one contract—surface treatment, 4.14 miles); Suffolk (one contract—surface treatment, 7.54 miles); Tompkins (one contract—surface treatment, 4.49 miles); Westchester (one contract—surface treatment, 25.01 miles).

Maps, plans, specifications and estimates may be seen and proposal forms obtained at the office of the Commission in Albany, N. Y., and also at the office of the Division Engineers in whose division the contracts are to be repaired. The addresses of the Division Engineers and the counties in which they are in charge will be furnished on request.

The especial attention of bidders is called to "Information for Bidders" in the itemized proposal, specifications and contract agreement.

EDWIN DUFFEY, Commissioner.

I. J. MORRIS, Secretary.

**Bids received until May 25, 1915.**

## Water Pipe

Philadelphia, Pa.

Bids will be opened on May 25, 1915, at noon, in Room 225, City Hall, Philadelphia, Pa., for furnishing and laying cast iron water pipe under Contract No. 260, containing approximately 17,000 feet of 48 inch pipe, 3300 feet of 30 inch, and 21,000 feet of 24 inch and under. Plans and specifications for which a deposit of $5.00 is required, and any further information, can be had at the Bureau of Water, Room 701, City Hall, Philadelphia.

C. E. DAVIS, Chief of Bureau.

**Bids received until May 28, 1915.**

## Notice to Bridge Contractors

Canton, N. Y.

Sealed proposals, endorsed "Proposal for Bridge on Canton-Pierrepont Road," will be received by the Town Board of the Town of Canton, N. Y., at the Office of the Town Clerk in the Village of Canton, N. Y., until 2 P.M. on the 28th day of May, 1915.

The work consists of removing the superstructure of the present bridge over Granis Brook on said Road in such a manner that said bridge can be used again, and placed where directed by the Town Superintendent, and furnishing and erecting the superstructure of a new steel truss bridge of one span of 46 feet, with roadway of 18 feet in width, complete and ready for the concrete floor.

Each proposal must be accompanied by a certified check, or its equivalent, for ten per cent. of the amount of the proposal.

A bond for the whole amount, approved by the Supervisor, must be furnished by the successful bidder.

Specifications may be obtained from the Town Clerk or Supervisor.

The Town Board reserves the right to reject any or all proposals.

C. G. CHANEY, Supervisor.
H. M. BARBER, Town Clerk.
A. H. WILLIAMS, Town Supt.

Dated May 3rd, 1915.

**Bids received until May 25, 1915.**

## Brick, Segment Block and Terra Cotta Pipe Sewers

Wilkes-Barre, Pa.

SEALED PROPOSALS will be received at the City Clerk's Office, Wilkes-Barre, Pennsylvania, until Tuesday, May 25th, 1915, at 12 o'clock, Noon, for furnishing all labor and materials and constructing brick, segment block and terra cotta pipe sewers in the City of Wilkes-Barre in accordance with plans and specifications, copies of which may be had upon application to B. K. FINCH, City Engineer, upon payment to him of the sum of Five Dollars ($5), which will be refuned to bidders, provided said specifications are returned to the City Engineer on or before June 1, 1915. Proposals to be endorsed "Proposals for Sewer Construction" and addressed to Fred H. Gates, City Clerk, and must be accompanied by a certified bank check in the sum of One Thousand Dollars ($1,000), conditioned upon the successful bidder entering into a contract for the completion of said work. The firms who submit bids to those bidding on the sewer, to furnish to said bidders vitrified segment sewer tile, must file with the City Clerk, on or before May 25th, 1915, at 12 o'clock Noon, a Surety Company Bond in the sum of Ten Thousand Dollars ($10,000) guaranteeing said tile for a period of five years from the date of the completion of the sewer. The City Council reserves the right to reject any or all of the bids.

C. N. LOVELAND,
Superintendent of the Department of Streets and Public Improvements.

**Bids received until May 11, 1915.**

## To Paving Contractors

Anderson, S. C., April 24, 1915.

Sealed proposals on blank forms furnished by the City and addressed to the Board of Paving Commissioners will be received until Noon, May 11, 1915, for furnishing all material, labor, etc., for street paving.

The work will consist of approximately seventy-five thousand (75,000) square yards of street paving, including all classes.

Each bid must be accompanied by a certified check, made payable to the City Clerk and Treasurer, for five (5%) per cent. of price bid.

The right is reserved by the Board of Paving Commissioners to reject any, or all, or any portion of bids.

Specifications can be had and additional information gotten at the office of the City Engineer, Anderson, S. C.

W. A. SANDERS, City Engineer.

J. H. GODFREY, Mayor.

**Bids received until May 25, 1915.**

## Sewerage System

Rittman, Ohio.

Sealed proposals will be received by the Clerk of Council at Rittman, Ohio, in the Council Chamber, until 1 o'clock P.M., Central Standard time, of the 25th day of May, 1915, and then publicly opened and read, for the construction of a Sewerage System for certain portions of the Village of Rittman, Ohio.

The work to be done includes the construction of approximately 5.36 miles of vitrified pipe sewers, ranging in size from 6 to 15 inch, to be located on the several streets and thoroughfares and private right-of-ways in the Village.

Bids will be made upon the work as a whole.

Copies of the plans, proposal forms, specifications, and forms of bonds and contract can be seen at the office of the Clerk of Council, Rittman, Ohio; or may be obtained by prospective bidders upon depositing Ten Dollars ($10.00) with W. F. Peters, Engineer, Medina, Ohio, or R. Winthrop Pratt, Consulting Engineer, Hippodrome Bldg., Cleveland, Ohio, which sum will be refunded on the return of plans and specifications within ten (10) days after the contract is awarded, if same are in good condition when returned.

The contract bond will be for fifty (50%) per cent. of the amount of the contract.

Each proposal shall be accompanied by a certified check for ten (10%) per cent. of the amount of proposal, or by a bond with surety or sureties satisfactory to the Village Council.

The Village Council reserves the right to reject any or all bids, waive any informalities in the bids received and to accept any bid which it deems most favorable to the Village of Rittman, Ohio.

By Order of the Village Council.

VANCE HICKIN, Clerk.

**Bids received until May 25, 1915.**

## Sewage Treatment Plant

Rittman, Ohio.

Sealed proposals will be received by the Clerk of Council at Rittman, Ohio, in the Council Chamber, until 1 o'clock P.M., Central Standard time, of the 25th day of May, 1915, and then publicly opened and read, for the construction of a Sewage Treatment Plant for the Village of Rittman, Ohio.

The work to be done includes the construction of a pump station with electric driven centrifugal pumps, concrete sedimentation and dosing tanks, 1.25 acres of intermittent sand filters and an earth dike.

Bids will be made upon the work as a whole.

Copies of the plans, proposal forms, specifications, and forms of bonds and contracts can be seen at the office of the Clerk of Council, Rittman, Ohio; or may be obtained by prospective bidders upon depositing Ten ($10.00) Dollars with W. F. Peters, Engineer, Medina, Ohio, or R. Winthrop Pratt, Consulting Engineer, Hippodrome Bldg., Cleveland, Ohio, which sum will be refunded on the return of plans and specifications within ten (10) days after the contract is awarded, if same are in good condition when returned.

The contract bond will be for fifty (50%) per cent. of the amount of the contract.

Each proposal shall be accompanied by a certified check for ten (10%) per cent. of the amount of proposal, or by a bond with surety or sureties satisfactory to the Village Council.

The Village Council reserves the right to reject any or all bids, waive any informalities in the bids received and to accept any bid which it deems most favorable to the Village of Rittman, Ohio.

By Order of the Village Council.

VANCE HICKIN, Clerk.

**Bids received until May 21, 1915.**

## Highway Work

OFFICE OF THE STATE COMMISSION OF HIGHWAYS.
Albany, N. Y.

Sealed proposals will be received by the undersigned at their office, No. 55 Lancaster Street, Albany, N. Y., at 1 o'clock p.m., Friday, the 21st day of May, 1915, for the improvement of Highways in the following counties:

Broome, 3 highways (1.03; 0.41; 0.28); Cattaraugus, 3 highways (5.62; 3.95; 6.88); Delaware, 3 highways (7.69; 11.40; 5.84); Genesee (approx. length 4.49); Greene (approx. length 4.43); Oneida (approx. length 5.73); Ontario, 4 highways (1.38; 1.23; 8.63; 1.53); St. Lawrence, 2 highways (5.07; 3.09); Schenectady (approx. length 3.34); Suffolk (approx. length 10.50); Washington, 2 highways (3.34; 5.96).

Maps, plans, specifications and estimates may be seen and proposal forms obtained at the office of the Commission in Albany, N. Y., and also at the office of the Division Engineers in whose division the road is to be constructed. The addresses of the Division Engineers and the counties in which they are in charge will be furnished on request.

The especial attention of bidders is called to "Information for Bidders" in the itemized proposal, specification and contract agreement.

EDWIN DUFFEY, Commissioner.
I. J. MORRIS, Secretary.

**Bids received until May 18, 1915.**

## Water-works Improvement

Paris, Illinois.

Sealed proposals will be received by the City Clerk of Paris, Edgar County, Illinois, until 10 o'clock A.M., May 18, 1915, for the construction of four earth dams, a diversion channel, a wet well and an intake, and two sewers, at which time they will be publicly opened and read.

Bids will be received on four alternatives, one of which will be chosen. The work under the alternatives will consist of about:

| Class of Work | Alternative A | Alternative B | Alternative C | Alternative D |
|---|---|---|---|---|
| Earth Excav. cu.yd..... | 55,000 | 8,000 | 53,000 | 4,600 |
| Earth Fill cu.yd..... | 55,000 | 55,000 | 21,000 | 21,000 |
| Rock Excav. cu.yd..... | 3,400 | 170 | 3,300 | 90 |
| Concrete cu.yd. ..... | 2,500 | 5,400 | 1,600 | 3,500 |
| 15-in. pipe sewer linear feet | 3,400 | 800 | 3,400 | 800 |

Copies of the contracts, plans and specifications and information for bidders are on file at the office of the City Clerk, Paris, Illinois, or they may be obtained by application to the engineers, Fleming, Babbitt and Enger, Urbana, Illinois.

A charge of fifteen dollars will be made for each set of plans, specifications, etc., which charge will be refunded upon the return of the complete set in good condition on or before June 18, 1915.

**Bids received until May 18, 1915.**

## Street Paving

Charleston, S. C., April 16, 1915.

Sealed Proposals in duplicate will be received at this office until 1 P.M. Tuesday, May 18th, 1915, for 65,000 square yards, more or less, of paving on concrete base, of which it is estimated that 20,000 square yards to 25,000 square yards will be Creosoted Wood Block and the remainder Sheet Asphalt, Asphaltic or Bituminous Concrete or Bitulithic. Specifications will be furnished prospective Bidders upon receipt of $5.00 as guarantee for their return. The right is reserved to reject any or all bids.

J. H. DINGLE, City Engineer.

## Contractors

BIDS OPENED MAY 18, 1915,

for the construction of Section No. 2 of Route No. 49, being a part of the Culver Rapid Transit Railroad.

A three-track elevated railroad in the Borough of Brooklyn, beginning at a point in Gravesend Avenue about 525 feet south of Bay Parkway and extending southerly over Gravesend Avenue and Shell Road to a point about 525 feet south of Avenue X produced.

Write or call concerning form of contract, plans and specifications.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT,
154 Nassau Street, New York City.

**Bids received until May 11, 1915.**

## Proposals for Street Improvement

Village of Larchmont, Westchester County, N. Y.

Notice is hereby given, pursuant to law, that the Board of Trustees of the Village of Larchmont, in the County of Westchester, State of New York, on the 11th day of May, 1915, at 8:30 o'clock p.m., in the Village Hall in said Village, will receive sealed proposals for the construction of a permanent pavement in that portion of Larchmont Avenue in said Village extending from the southerly side of Magnolia Avenue to the Boston Post Road.

All proposals must be sealed and addressed to the "Clerk of the Village of Larchmont, Westchester County, New York." Each bidder must state in his bid his full name, residence and place of business, and if a corporation the names of its officers and its principal place of business.

The prices must be given in terms per square yard of finished surface.

Bidders must furnish their own specifications. They may submit such bids as they may desire relating to various classes of pavement.

The contractor will at his own expense before entering upon the work be required to furnish a contingent liability policy of a Surety Company approved by said Board of Trustees, in the sum of $15,000, properly insuring said Village against loss and damages by reason of any act or omission on the contractor's part or that of his employees.

Each bidder must present his proposal accompanied by a certified check for $500, payable to the order of the Treasurer of the Village of Larchmont. Check of the successful bidder will be retained by said Village as security to guarantee the execution of a proper contract by the contractor embodying the specifications submitted and also the deposit with said Village of the bond hereinafter mentioned and the approved liability policy aforesaid. All checks of unsuccessful bidders will be returned to them as soon as practicable.

The contractor shall furnish a bond in the penal sum of $16,000, conditioned for the faithful performance by him of the work specified in the contract.

Details as to measurements, etc., and other information may be obtained by making application to George S. Towle, C. E., Larchmont, New York.

Larchmont, New York, April 30th, 1915.

EUGENE D. WAKEMAN,
Clerk of the Village of Larchmont.

**Bids received until May 26, 1915.**

## Water-works Improvements

Albion, N. Y.

Sealed proposals will be received by the Village of Albion, Orleans County, N. Y., up to 12 o'clock noon, May 26th, 1915, for furnishing the materials and performing the work connected with improvements and extensions to the Water-works System of said Village.

There will be required approximately the following material: About 23,900 lineal feet of 6 inch cast iron water mains; 50 fire hydrants; 60 gate valves; Pumping machinery consisting of two triplex power pumps operated by internal combustion engines; a mechanical gravity Filtration Plant, etc.

A certified check, in an amount equal to two (2) per cent. of the amount of the bid, made payable to the Treasurer of the Village, must accompany each proposal.

Plans may be seen and specifications and blank forms of proposal procured at the office of the ClerR of the Village, Albion, N. Y., or at the office of the Engineers, J. F. Witmer Company, 97 and 98 Dun Building, Buffalo, N. Y.

The right is reserved to reject any and all bids.

EDWARD S. EATON, Village Clerk.

J. F. WITMER COMPANY, Engineers,
Buffalo, N. Y.

Albion, N. Y., May 3rd, 1915.

U. S. ENGINEER OFFICE, Louisville, Ky., April 12, 1915.—Sealed proposals for two steel dump scows will be received here until 12:00 noon, Central Time, May 13, 1915, and then publicly opened. Information on application. J. C. OAKES, Major, Engrs.

U. S. ENGINEER OFFICE, Wilmington, N. C., Apr. 26, 1915.—Sealed proposals for furnishing and delivering about 22,000 barrels of Portland cement will be received at this office until 12 M., May 26, 1915, and then publicly opened. Information on application. H. W. STICKLE, Maj., Engrs.

U. S. ENGINEER OFFICE, Savannah, Ga., April 26, 1915.—Sealed proposals for construction and delivery of two (2) steel lighters will be received at this office until 12 o'clock, Noon (Eastern Standard Time), May 26, 1915, and then publicly opened. Information on application. W. C. LANGFITT, Colonel, Engineers.

**Bids received until May 10, 1915.**

## Proposals for State Road Work

Hartford, Conn.

SEALED PROPOSALS will be received by the State Highway Commissioner, Room 27, Capitol, Hartford, Conn., until 2 P.M. Monday, May 10th, 1915, for the following sections of state road work in accordance with plans and specifications on file in the office of the State Highway Commissioner and at the following places:

TOWN OF GREENWICH—About 8475 linear feet of Bituminous Concrete, Amiesite or Warrenite construction on the Boston Post Road. Plans and specifications at office of State Highway Commissioner, Hartford. TOWN OF WESTPORT—About 813 linear feet of Brick Pavement over a Concrete Base on the Boston Post Road. Plans and specifications at office of State Highway Commissioner, Hartford. TOWN OF SIMSBURY—About 5300 linear feet of Bituminous Concrete, Amiesite or Warrenite construction on Main Street. Plans and specifications at office of State Highway Commissioner, Hartford. TOWN OF ENFIELD—Widening of Bridge over Fresh Water Brook, together with grading, etc. Plans and specifications at Town Clerk's Office, Town Building, Enfield. All bids must be accompanied by a surety company bond or a certified check not less than one-third of the cost of the work. The State Highway Commissioner reserves the right to reject any and all bids. Dated at Hartford, Conn., April 29, 1915.

C. J. BENNETT,
State Highway Commissioner,
Room 27, Capitol, Hartford, Conn.

PROPOSALS FOR STORM-WARNING LANTERNS—U. S. Department of Agriculture, Washington, D. C., April 15, 1915.—Sealed proposals for furnishing storm-warning lanterns, as specified, f.o.b. factory, will be received here until noon, May 18, 1915, and then opened. Information furnished upon application to the Chief of Weather Bureau. Samples of the lanterns proposed to be furnished, to be submitted in connection with bid. Envelopes containing proposals should be indorsed "Proposals for Storm-warning Lanterns," and addressed to Chief, U. S. Weather Bureau, Department of Agriculture, Washington, D. C.

U. S. ENGINEER OFFICE, Kansas City, Mo., April 20, 1915.—Sealed proposals for constructing about 2250 feet standard 3-row timber dike, and about 12,000 feet standard revetment on Missouri River, about 163 miles below Kansas City, and 9 miles below Glasgow, will be received at this office until 12 M., May 20, 1915, and then publicly opened. Information on application. HERBERT DEAKYNE, Lieut.-Col., Engrs.

U. S. ENGINEER OFFICE, Wheeling, W. Va., May 3, 1915.—Sealed proposals for furnishing and delivering water turbines, air compressors, valve jacks, and gate winches, etc., for Dams Nos. 15 and 19, Ohio River, will be received at this office until 11 a.m. (Eastern time), June 2, 1915, and then publicly opened. Information on application. T. H. JACKSON, Major, Engrs.

U. S. ENGINEER OFFICE, Louisville, Ky., April 19, 1915.—Sealed proposals for a Steel Hull for Dredge "Nolin River" will be received here until 12 noon, central time, May 19, 1915, and then publicly opened. Information on application. J. C. OAKES, Major, Engrs.

U. S. ENGINEER OFFICE, Pittsburgh, Pa., April 21, 1915.—Sealed proposals for building two lockkeepers' houses at Dam No. 1, Monongahela River, will be received at this office until 12 M. (Eastern Standard Time), May 21, 1915, and then publicly opened. Information on application. HAROLD C. FISKE, Captain, Engrs.

PROPOSALS FOR BOOMS, MASTS, STIFF LEGS, HOISTING ENGINES, CONCRETE MIXERS AND CLAM SHELL BUCKETS.—Mississippi River Commission, 1st and 2d Districts, Room 20, Custom House, Memphis, Tenn., May 1, 1915.—Sealed proposals for furnishing and delivering booms, masts, stiff legs, hoisting engines, concrete mixers and clam shell buckets, will be received at this office until 11 a.m., May 21, 1915, and then publicly opened. Information furnished on application. E. M. MARKHAM, Maj., Engrs.

U. S. ENGINEER OFFICE, Kansas City, Mo., April 20, 1915.—Sealed proposals for constructing about 5900 feet standard 3-row timber dike on Missouri River, about 50 and 53 miles below Kansas City, and 1 mile below Napoleon and 1 mile above Camden, will be received at this office until 12 M., May 20, 1915, and then publicly opened. Information on application. HERBERT DEAKYNE, Lieut.-Col., Engrs.

U. S. ENGINEER OFFICE, 337 Federal Building, Detroit, Mich., April 8, 1915.—Sealed proposals for furnishing and placing stone riprap along lake face of main breakwater, Harbor Beach, Michigan, will be received at this office until 12 noon, May 11, 1915, and then publicly opened. Information on application. MASON M. PATRICK, Lt.-Col., Engineers.

U. S. ENGINEER OFFICE, 337 Federal Building, Detroit, Mich., May 5, 1915.—Sealed proposals for excavation of Earth and Rock, U. S. Power Plant Tail Race, St. Marys River, Mich., will be received at this office until 12 M., June 15, 1915, and then publicly opened. Information on application. MASON M. PATRICK, Lt.-Col., Engineers.

U. S. ENGINEER OFFICE, Kansas City, Mo., April 10, 1915. —Sealed proposals for constructing about 4,200 feet standard 3-row timber dike on Missouri River, about 12 and 20 miles below Kansas City, and about one-half mile below Cement City and near So. Liberty, will be received at this office until 12 M. May 10, 1915, and then publicly opened. Information on application. HERBERT DEAKYNE, Lieut.-Col., Engrs.

U. S. ENGINEER OFFICE, Wilmington, N. C., Apr. 26, 1915. —Sealed proposals for furnishing and delivering about 19,700 tons of crushed stone will be received at this office until 1 P.M., May 26, 1915, and then publicly opened. Information on application. H. W. STICKLE, Maj., Engrs.

U. S. ENGINEER OFFICE, First District, New York City, Room 710 Army Building, 39 Whitehall Street, New York, N. Y., April 28, 1915.—Sealed proposals for constructing and delivering combination drill scow and dredge "General Gillespie" will be received at this office until 12 M., May 28, 1915, and then publicly opened. Information on application. W. M. BLACK, Col., Engrs.

U. S. ENGINEER OFFICE, Kansas City, Mo., April 24, 1915. —Sealed proposals for constructing about 1000 feet standard 3-row timber dike, and about 5000 feet standard revetment on Missouri River, about 98 miles below Kansas City, and 6 miles below Waverly, will be received at this office until 12 M., May 24, 1915, and then publicly opened. Information on application. HERBERT DEAKYNE, Lieut.-Col., Engrs.

U. S. ENGINEER OFFICE, Kansas City, Mo., April 24, 1915. —Sealed proposals for constructing about 5500 feet standard 3-row timber dike on Missouri River, about 92 and 98 miles below Kansas City, opposite and about 6 miles below Waverly, will be received at this office until 12 M., May 24, 1915, and then publicly opened. Information on application. HERBERT DEAKYNE, Lieut.-Col., Engrs.

U. S. ENGINEER OFFICE, 337 Federal Building, Detroit, Mich., April 8, 1915.—Sealed proposals for constructing and placing two timber cribs and replacing with concrete, timber superstructure, breakwater at Harbor Beach, Michigan, will be received at this office until 12 noon, May 12, 1915, and then publicly opened. Information on application. MASON M. PATRICK, Lt.-Col., Engineers.

U. S. ENGINEER OFFICE, Wheeling, W. Va., April 28, 1915. —Sealed proposals for furnishing and erecting steel lock gates for Dams Nos. 12 and 20, Ohio River, will be received at this office until 11 a.m. (Eastern time), May 18, 1915, and then publicly opened. Bids will be considered for lock gates for one or both dams. Information on application. T. H. JACKSON, Major, Engrs.

TREASURY DEPARTMENT, U. S. Coast Guard, Washington, D. C., April 22, 1915.—Sealed proposals will be received at this office until 2 o'clock P.M. of Wednesday, May 26, 1915, and then publicly opened, for moving and altering the Sandy Hook Coast Guard Station, Fort Hancock, New Jersey. Specifications and drawings, form of proposal, etc., and full information can be obtained upon application to the Superintendent, Fifth District, Coast Guard, Asbury Park, N. J., the Keeper, Sandy Hook Coast Guard Station, Fort Hancock, N. J., or to this office. E. P. BERTHOLF, Captain Commandant.

PROPOSALS FOR LEVEE WORK—Mississippi River Commission, 1st & 2d Districts, Room 20, Custom House, Memphis, Tenn., April 27, 1915.—Sealed proposals for constructing about 4,500,000 cubic yards of levee work in the Upper and Lower St. Francis, and White River Levee Districts, will be received at this office until 11 a.m., May 26, 1915, and then publicly opened. Information upon application. E. M. MARKHAM, Maj., Engrs.

# Classified Advertising

## POSITIONS WANTED

### Mechanical and Electrical Engineers

GRADUATE ELECTRICAL AND MECHANICAL ENGINEER with extensive experience in general engineering desires a position of office engineer with engineering corporation or chief engineer of industrial plant. P. W. 78, Eng. News.

### Civil Engineers

CIVIL ENGINEER, college graduate; five years' experience, design and construction, docks, bridges, surveys. P. W. 179, Eng. News.

GRADUATE CIVIL ENGINEER wants work of any kind in the engineering line; five years' experience, land surveys, canal, roads, sewers and street paving. P. W. 76, Eng. News.

CIVIL ENGINEER, 45, now employed, is desirous of obtaining position in charge of construction with large company; experience includes railroad location, maintenance-of-way and construction, both steam and electric; general municipal work, with very large sewer design and construction work; highway construction; sewage-disposal experimentation and practice; drawing of specifications of many kinds; organization of construction work; planning records of cost for control purposes; field of work has extended from Atlantic to Pacific and from British Columbia to Central Venezuela; prefers local work, but will go abroad; has good working knowledge of Spanish. P. W. 132, Eng. News.

CIVIL ENGINEER; college graduate; Assoc. M. Am. Soc. C. E.; 10 years' experience, design and construction, docks, bridges, roads, canals, surveys. P. W. 152, Eng. News.

CIVIL ENGINEER AND SUPERINTENDENT, 31; graduate; nine years' wide experience on surveys, drainage, sewers, sewage disposal, water and paving; good draftsman and designer; available now; personal interview East or South. P. W. 154, Eng. News.

CIVIL ENGINEER, 17 years' experience, surveys and construction railways and hydraulic development; good draftsman; speak Spanish. P. W. 184, Eng. News.

CIVIL ENGINEER and Superintendent, Associate Member American Society. Ten years' experience. Three years railway surveys and construction. Three years engineer sewer construction. Three years superintendent sewer and water works. Speaks Spanish. References. P. W. 181, Eng. News.

CIVIL ENGINEER, graduate, 14 years' practical experience; water works and municipal consulting engineering; design and construction, earth, masonry, concrete and steel; investigations, reports, appraisals, fire protection; excellent references. P. W. 199, Eng. News.

CIVIL ENGINEER, technical education, 25 years' practical experience location and construction railroads, water-works, sewers, dams, canals, docks; satisfactory references. P. W. 249, Eng. News.

ENGINEER, 34, wants position at anything in civil engineering or associated work; salary secondary; broad experience in municipal construction work; Assoc. Mem. Am. Soc. C. E.; highest references. P. W. 208, Eng. News.

CIVIL ENGINEER AND BOOKKEEPER; 27; five years on railroad construction, two on sewer and municipal work, one as bookkeeper on irrigation work; desires position with engineer or contractor; owns level and transit. P. W. 223, Eng. News, Chicago.

GRADUATE ENGINEER, 29, six years' experience on extensive surveys, irrigation, railways, foundations, mining and valuation surveys; responsible position only; references. P. W. 131, Eng. News.

TECHNICAL GRADUATE, 24, three years' experience with general contractor, estimating, construction and cost keeping; salary secondary. P. W. 247, Eng. News.

GRADUATE CIVIL ENGINEER, Assoc. M. Am. Soc. C. E., desires position as location or constructing engineer, superintendent, foreman; age 30; married, no children; eight years' experience; railroad location and construction, water-power and irrigation construction; have handled 500 men; initial salary small, if chance of advancement on ability is good; references furnished; complete experience or personal interview vicinity New York; location immaterial; available May 20. P. W. 218, Eng. News.

WATER-SUPPLY, water power, dams, sewers; responsible charge, construction and design; present engagement soon terminates; age 34; Assoc. M. Am. Soc. C. E. P. W. 224, Eng. News.

YOUNG GRADUATE CIVIL ENGINEER, one years' experience on reinforced-concrete construction desires work; good man for contractor. P. W. 230, Eng. News.

CIVIL ENGINEER, university graduate, 2 years' building experience, now at concrete design seeks location with contractor or engineer, New York or vicinity. P. W. 231, Eng. News.

YOUNG MAN, graduate civil engineer, wishes work in the engineering line; location immaterial; salary secondary matter. P. W. 238, Eng. News.

### Bridge and Structural

STRUCTURAL ENGINEER, who has done important work for leading concerns, expert designer and detailer, extensive and varied experience, steel and reinforced-concrete, wants responsible position; New York interview; best references. P. W. 245, Eng. News.

### Surveyors

YOUNG MAN with 11 years' experience in railroad and general engineering desires position as transitman on any class of work; location immaterial; best references. P. W. 178, Eng. News.

### Draftsmen

DRAFTSMAN, three years on architectural work and three years at steel detailing on mill and office buildings desires position. P. W. 235, Eng. News.

STRUCTURAL DRAFTSMAN; M. I. T. graduate; first-class detailer; 2½ years with leading New York firm. Box 85, Barnstable, Mass.

GENERAL EXPERIENCE, including structural steel, concrete, heavy timber, machinery, etc., open for a position; location, New York. P. W. 243, Eng. News.

ENGINEER AND DRAFTSMAN, 33, ten years' experience field and office work, estimating, designing and installing, building bridges, reinforced concrete and steel and general construction. P. W. 226, Eng. News.

CHIEF DRAFTSMAN, EXECUTIVE—Energetic, capable man, 32, married, possessing good education, executive ability, initiative, also varied mechanical, structural, business experience, now engaged as chief draftsman large manufacturing concern, wishes to secure connection in Philadelphia in similar line or as assistant to superintendent in executive capacity. P. W. 219, Eng. News.

TOPOGRAPHIC AND RAILROAD DRAFTSMAN, 30, experienced technical graduate, neat, rapid letterer, Reinhardt's style; permanent, responsible position only. P. W. 221, Eng. News, Chicago.

STRUCTURAL DRAFTSMAN, five years' general experience, wants position, New York or vicinity; $20 per week. P. W. 242, Eng. News.

BY ENGINEER with experience in the design and detailing of first-class structural work. P. W. 234, Eng. News.

ENGINEER AND DRAFTSMAN, technical graduate, seven years' experience, field and office, drainage and irrigation work; A-1 letterer, Reinhardt's style; samples. P. W. 216, Eng. News.

GRADUATE ENGINEER now employed wants to locate with private concern; willing to start from bottom, if chances are good; several years' experience; road work, sewers, dam, grade crossings and subway work; expert computer (formerly computer U. S. Coast and Geodetic Survey); location immaterial. P. W. 244, Eng. News.

TRACER OF ARCHITECTURAL DRAWINGS; accurate and neat; best references and moderate salary. P. W. 248, Eng. News, Chicago.

**Superintendents, Etc.**

CARPENTER FOREMAN; concrete forms or heavy timber work; references. P. W. 236, Eng. News.

SUPERINTENDENT OF PAVING; 22 years' experience; good organizer; temperate. P. W. 233, Eng. News.

YOUNG ESTIMATING, designing and sales engineer desires connection with live concern where extensive experience in reinforced concrete and general building construction with leveling contractors and architects, coupled with good personality and push, are required. P. W. 232, Eng. News, Chicago.

STEAM-SHOVEL ENGINEER AND MASTER MECHANIC, 30 years' experience on Bucyrus, Marion and Atlantic shovels and contractors' machinery; references on application. P. W. 239, Eng. News.

YOUNG MAN, graduate engineer, wishes engineering employment; character of work and location immaterial. P. W. 158, Eng. News.

COMPETENT DESIGNER, detailer and draftsman with extensive experience on structural steel, concrete and timber construction desires position; first-class references; also experienced in estimating and ornamental iron work. P. W. 150, Eng. News.

TECHNICAL GRADUATE, 6 years drafting, checking, estimating, wants position; architect preferred. P. W. 206, Eng. News.

TECHNICAL GRADUATE, 29, six years' experience on reinforced concrete and factory construction desires position as architect or contractor's superintendent; at present employed. P. W. 198, Eng. News.

GRADUATE ENGINEER, 28, five years' experience, surveys, railroad construction, topographic surveys and road construction tropics, go anywhere, prefer Spanish America. P. W. 193, Eng. News, Chicago.

ENGINEERING ASSISTANT experienced in cost accounting, statistical work, correspondence and office management, seeks position. P. W. 194, Eng. News.

AS ASSISTANT PROFESSOR or instructor; two years' experience teaching structural engineering and materials testing with a leading Eastern institution; five years' previous experience as structural designer. Desire new location with opportunity for advancement. P. W. 191, Eng. News.

SUPERINTENDENT of construction capable of taking charge of field and office work on locks, dams and water works projects. Associate Member American Society of Civil Engineers; twelve years' experience; open for engagement May 1. P. W. 190, Eng. News.

MAN OF WIDE EXPERIENCE desires position with contractor; general superintendent, manager, estimator; has been principal and knows what employer wants. P. W. 185, Eng. News.

FOREMAN (Italian), good education in both languages; good knowledge in every kind of work. P. W. 183, Eng. News.

SALESMAN (mechanical engineer), experienced in executive, financial and advertising work; can get business. P. W. 246, Eng. News.

SUPERINTENDENT, 15 years' experience, reinforced-concrete construction, especially bridges, water filtration, sewage-disposal works, foundation work, desires change from present connections to more responsible position; excellent reasons for changing; references furnished. P. W. 222, Eng. News.

HYDRAULIC ENGINEER, college graduate, 28; six years' experience, of which 2½ were with U. S. Geological Survey on stream flow, power and seepage investigations; one year in charge irrigation and power surveys; other experience in designing, structural and hydraulic; good draftsman; desires position with consulting engineer or as hydraulic instructor; references and copies of reports; salary $125. P. W. 225, Eng. News, Chicago.

ENGINEERING SALESMAN with technical education desires responsible position; 11 years' experience in designing, estimating, constructing and selling full line of crushing, mining, cement making and special machinery. P. W. 220, Eng. News.

PRECISE INSTRUMENTMAN—Expert, practical with the instrument and at any preliminary, detail surveying and mapping, supervise and do own instrument work; have just successfully completed large survey of a vast coal development project; had full charge and responsibility; will do the same for any appreciative party on any survey; record furnished of five years' practical experience and character. P. W. 227, Eng. News.

ENGINEER; technically educated; 11 years surveys and construction, three years contractor's engineer; thorough knowledge costs and economical handling work. P. W. 156, Eng. News, Chicago.

# POSITIONS OPEN

STRUCTURAL DETAILERS wanted for structural shop in Havana, Cuba; must be fully experienced, rapid and accurate on mill-building work; state experience, references and salary at once; permanent position for right men. P. 240, Eng. News.

HYDRAULIC DREDGE FOREMAN wanted; must have had long experience in this particular work. Applicants please state age and salary required and give details of experience. P. 217, Eng. News.

# Civil-Service Opportunities

*Competitive examinations for the civil-service positions named below will be held on or up to the dates given. For detailed information, write the addresses specified.*

ASSISTANT RAILROAD ENGINEER—Examination for the above position under the Illinois Public Utilities Commission will be held June 5, 1915, at points in Illinois. Open only to male residents of Illinois over 25. Salary $160 to $200 a month. For details and application blanks, write State Civil Service Commission, Springfield, Ill.

# Employment Agencies

*The Employment Agencies advertising in this paper agree to refund any registration fee on demand any time within the first six months when no position is secured.*

TECHNICAL ENGINEERS in every line for available positions; employers and applicants write The Toledo Engineering Agency, Toledo, Ohio.

ENGINEERS, ARCHITECTS AND DRAFTSMEN wanted. The Kansas City Engineering Agency, 323 Midland Building, Kansas City, Mo.

**LABOR BUREAUS**

SPECIAL ADVANTAGES to contractors or others employing skilled or unskilled laborers. Commissary privileges optional. Central Labor Agency, 139 Mulberry St., New York. (Telephone 8970 Canal.)

# WANTED

**AGENTS AND SALESMEN**

ENGINEER OR DRAFTSMAN to sell WINSLOW direct-reading, beam and reinforced concrete calculating SLIDE-RULES. Simple, quick. Good opportunity for first agent in each city. Henry W. Tomlinson, 62 East Van Buren St., Chicago.

WANTED TO REPRESENT MANUFACTURER in New York territory, by man well acquainted with the pump and power plant field; several years successfully representing a prominent firm. Address A, Room 322-E, 30 Church St., New York City.

# BUSINESS OPPORTUNITIES

CONSTRUCTION COMPANY (specializing concrete work), newly incorporated, offers good opportunity to man who can invest at least three thousand dollars ($3000). No triflers. Address Concrete, Room 416, 145 Nassau St., N. Y. C.

WANTED A GOOD SUPERINTENDENT to take charge of some state road work; must be able to handle men and know how to lay brick roads and macadam roads and must be able to put at least $5000 in the company; these are new contracts not started yet; will pay salary and commission to the right kind of man that is a hustler; great chance for some live man who is not afraid of work. B. O. 241, Eng. News, Chicago.

# FOR SALE

BOUND HALF LEATHER "ENGINEERING NEWS," Volumes 51 to 58 inclusive; price $1.50 each for all. F. S. 237, Eng. News.


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of instruction and practical work in designing and estimating the cost of structures of steel and reinforced concrete have been prepared by a well known Consulting Engineer,

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### *PROVIDE ACTUAL EXPERIENCE*

and save years spent in mis-directed efforts which are a necessary result of trying to acquire experience without the direct aid and assistance of an engineer properly experienced in such work.

**Address M. 180, Engineering News**

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Equipment Wanted items appear at the end of this list.

N

*ADVERTISERS' NAMES are abbreviated in most of these items. Complete names and addresses are as follows:*

AMERICAN Construction Co., 108 N. Delaware St., Indianapolis, Ind.—All equipment listed as good as new, used only short time.
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CONTRACTORS' Service Co., 50 Church St., N. Y. City.
DALLETT & CO., Harrison Bldg., Phila., Pa.
GIVIN Co., Herbert, 30 Church St., N. Y. City.
GRIMSHAW Co., Wm. B., 688 Drexel Bldg., Phila., Pa.
HITNER'S Sons Co., Henry A., Philadelphia, Pa.
HOISTING Engine Sales Co., 120 West 32d St., New York.
LINES FLYNN Co., Inc., 30 Church St., N. Y. City.
MARINE Metal & Supply Co., 167 South St., N. Y. City.
NEW RIVER Co., The, Macdonald, W. Va.
PIPE & Contractors Supply Co., 3 Dover St., N. Y. City.
SAMPSON Co., Geo. H., 13 Pearl St., Boston, Mass., and 42 B'way, N. Y. C.; or Winston & Co., Brown Station, N. Y.
SCHMIDT, Jr., & Co., C. G. A., Empire Bldg., Phila., Pa.
SOUTHERN Iron & Equipment Co., Atlanta, Ga.
STALLEY, G. T., Box 390, Cleveland, Ohio.
WHITNEY, O. R., 39 Cortlandt St., N. Y. C. (Cort. 6095).

## AIR COMPRESSORS

2—Ingersoll-Rand, Cross Compound steam and air cylinders with Corliss valve gear 2500 cu. ft. capacity.—SAMPSON.

2—Ingersoll-Rand, Cross Compound Steam and Air Cylinders with Corliss valve gear 3300 cu.ft. capacity. Boilers and Condensers with this plant. All in good condition. Bargain.—SAMPSON.

1—4700 Cu. Ft. Rand B. B. 3 Compound Steam and Compound Air Compressor with Condenser.—SAMPSON.

Several second-hand air compressors, steam and belt driven, straight line and two stage of various sizes from 70 to 1300 cu. ft. capacities. Good condition.—SAMPSON.

1—Ingersoll-Rand H-3, 1000 Cu. Ft. Compound Steam Compound.—SAMPSON.

1—WB-2 Sullivan 909 Cu. Ft. Tandem Steam Driven Compound.—SAMPSON.

1—Rand Class "C" 527 Cu. Ft. and 2—Rand Class "C" 98 cu. ft. straight Line steam Driven.—SAMPSON.

1—Imperial XB-2, 1312 Cu. Ft. and 1—Imperial XB-2, 1190 Cu. Ft. Compound Belt Driven.—SAMPSON.

1—Ingersoll-Sergeant Class "E-1" 236 Cu. Ft. Belt Driven. —SAMPSON.

1—22x22-13-¼x24, Sullivan, steam driven, class WB 2, straight line, 2 stage, cap., 1160 cu. ft., 1—24x24x30, McKiernan, class A, straight line, steam driven, cap. 1414 cu. ft.; 1—24x24-¼x30, Ingersoll, class A, steam driven, straight line, cap. 1223 cu. ft., 2—16x20-¼x16, Ingersoll-Sargeant, class H-1, duplex, steam driven, cap. 1540 cu. ft.—HITNER'S.

Steam driven 3 Laidlaw-Dunn-Gordon duplex 2-stage, and 5 Norwalk tandem 2-stage, capacities 900 to 2100 cu.ft., condition excellent.—NEW RIVER.

3—24"x24"x30" Rand S. L. Price $1000 each.—L. F. SEYFERT'S SONS, INC., 437 N. 3rd St., Phila., Pa.

American 10x10x10 straight line, steam driven, cap. 236 cu.ft.; Ingersoll-Rand 8x8x8 straight line, steam driven, cap. 100 cu.ft.; Clayton 8x8x7 duplex, cap. 150 cu.ft.—MARINE.

2 Norwalk 700 cu.ft. and 1200 cu.ft.; excellent condition. Reason for selling, mine worked out. No further use for same.—HANDY BROS. MINING CO., Bay City, Mich.

## BELT CONVEYORS

1—14" and 1—16" 50' centers.—GIVIN.

## BOILERS

5—250 H.P. B. & W., 150 lbs. steam. Horizontal return tubular, 2—72"x20', 1—78"x20', 1—72"x18', 1—72"x15', 1—72"x14', triple riveted, butt strapped, 125 lbs. steam.—HITNER'S.

35, 60 and 80 H.P. loco. boilers—PIPE.

2 New Marine, 10x11'; prompt delivery.—WHITNEY.

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## BUCKETS

1—1 yd. Theo. Smith Orange Peel.—PIPE.

5—¾ cu. yd. standard clam shells.—STALLEY.

Hayward 1⅝ yd., Mead & Morrison 1½ yd., Smith 1 yd. and Union Iron Works ¾ yd. clam shells; Hayward 7 cu.ft. orange peel; 10—Steubner 1¼ yd. "Excelsior" bottom dump concrete.—MARINE.

96—42 cu.ft. Stuebner tip-over buckets.—SCHMIDT.

## CARS

**[Standard Gauge]**

45—80,000 lb. flat cars, cheap.—WHITNEY.

**[36" Gauge]**

50—4 yd. 1-way So. Baltimore, $50 each. 8—K. & J. 3-yd. 2-way, overhauled, $70 each.—GRIMSHAW.

**[24" Gauge]**

10—1 yd. swivel end dump cars.—PIPE.

80—36 cu.ft. Koppel "V" body.—SCHMIDT.

## CRUSHERS

Gyratory, Nos. 8, 7½, 6, 5, 4, 3.—GIVIN.

1 Climax Portable plant complete, A1.—GIVIN.

1—18x36 Farrell; 1—24x36 Buchanan.—SCHMIDT.

1 Sturtevant, in perfect condition, used but 10 days; will sell cheap.—ARTHUR L. BATES, Meadville, Pa.

## DERRICKS

1 steel stiff leg 70 ft. boom with cast steel bull wheel, capacity 25 tons.—MARINE.

## DREDGES

Hydraulic and dipper. Sale or charter.—GIVIN.

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1 8 H.P. Vertical Type Fairbanks with sub-base.—SAMPSON

100 HP. Elyria tandem gas engine with air tank and engine; all in good shape; will sell cheap.—THE JACOBS LUMBER CO., Youngstown, Ohio.

## GENERATORS

Western Electric 100 K.W. dir. con. to 14x14 engine, 240 volts; 2 Western Electric 60 K.W. belt, 125 volts.—MARINE.

## GRADERS, ELEVATING

1 Austin.—AMERICAN.

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2 Fire Engines, condition, first class.—HITNER'S.

## HAMMERS

1 No. 4 Arnott.—PIPE.

## HOISTING ENGINES

2—3 drum Nationals, one 10x12 and one 8¼x10, with boilers; Lambert 8½x10 D.D.D.C. Skeleton; 7½x10 D.D.D.C. Skeleton, 15 other makes and sizes.—MARINE.

1 3 drum National hoist 10x12 with boiler and three independent winch-heads, excellent condition; 4 7x10 D.C.D.D. Lidgerwood with boilers; 1 Lidgerwood D.C.D.D. with swinger, skeleton 7x10, and 1 National D.C.D.D. with swinger, skeleton 7x10.—PIPE.

2 Lidgerwood 14x18, D.C. 3-tandem drum, reversible link motion; 1 Lidgerwood, 10x12, D.C. S.D. reversible link motion; 1 Lambert, 10x12, D.C. D.D. with boiler; 2 Lambert, 8x10, D.C. D.D. with Mass. boilers; 1 Lambert 7x10, D.C. D.D. with boiler; 1 Mundy, 7¼x10, D.C. D.D. with boiler; 1 Mundy, 6¼x10, D.C. D.D. with boiler; 1 O. & S. 6¼x8, D.C. D.D. with boiler. 2 Lidgerwood, 60 H.P. D.D. and swinger d.c. hoists.—HITNER'S.

THREE HUNDRED hoists, 2 or 3 drum 7x10, 8¼x10. 9x10, 10x12, skeleton or boilers; 100 electric.—HOISTING.

## INSTRUMENTS, SURVEYING

Second-Hand Transits, Levels, etc. Bought, sold or exchanged. Send for list of Second-Hand Instruments. Get our prices before ordering. WILLIAMS, BROWN & EARLE, Inc., Engineering Supplies, Dept. E, 918 Chestnut St., Phila.

$190 Sala Lt. Mt. transit V circle, good cond., $115; $100 Buff & B. Engrs. Dumpy level, inverting, fine, $70. Guaranteed. 99 others. Rentals, repairs, supplies.—ARCHITECTS' & ENGINEERS' SUPPLY CO., Kansas City, Mo.

Mountain Gurley transit, nearly new, $100. S. E. ROSS, 1033 Railway Exchange, Chicago, Ill.

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**[Standard Gauge]**

50 locomotives, Switch, Mogul, Consolidation, Ten Wheel and Saddle Tank types.—SOUTHERN.

2—40 ton switchers, overhauled.—CONTRACTORS S. CO.

40-ton Climax geared, rebuilt; like new.—DALLETT.

**[36" Gauge]**

10 10x16" Porter, Davenport and Vulcans.—SOUTHERN.

5 9x14" Porters.—SOUTHERN.

5—10x16 Vulcans, 1911-12.—CONTRACTORS S. CO.

20 ton, 11x16" Davenport, built 1907, $1175.—GRIMSHAW.

## LOCOMOTIVE CRANES

4 and 8-wheel, 10, 15 and 20 tons capacity.—HOISTING MACHINERY Co., 48 Church St., New York City.

4 and 8 wheel 10 and 15 ton.—CONTRACTORS S. CO.

1—7 Ton, 4 wheel, Industrial, 21' boom; 1—15 ton, 8-wheel, Industrial, wrecking crane, 20' boom, goose neck.—HITNER'S.

15 ton excellent condition, cheap.—STALLEY.

4 and 8 wheel, 10, 15, 20 and 25 tons capacity.—GIVIN.

1—10 ton 4 wheel Brown hoist, A1 condition; low price for quick sale.—GIVIN.

## MIXERS (Asphalt and Concrete)

Hadsel 2 yd. Batch with engine; Ransome ¾ yd. with engine and hopper; Foote Continuous No. 2½, 7½ H.P. motor, D.C. on wheels.—MARINE.

Portable plant, complete capacity 300-600 yds. per day; rare bargain.—LINES FLYNN.

1 Eureka continuous 3 H.P. D.C. motor; 2 Austin cubes with engines and boilers on steel skids; 2—2½ Smiths with engines on wheels; 1 yd. and ½ yd. Ransomes on skids.—PIPE.

2 Foote continuous mixers.—AMERICAN.

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